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Out-of-print publications and Open File Reports will be photocopied.

How to use this publications list

The Albert Research Council has several series of research publications, including Bulletins, Reports, Information Series, and Maps. Some categories, such as Exploratory Soil Survey Reports, have been discontinued, whereas others, such as the Coal Report series, have been added recently. Please note that there will be gaps in the numbering as some reports have been withdrawn over the years.

This publication outlines the various categories of Research Council publications, and then lists all reports and maps according to their series. People wishing to locate a specific item should first determine which category it belongs to and identify its number (for example, 75-2) if possible. If it is not in the listing for that series, it may appear in a related series. For example, a report on some aspects of earth science could be found in several categories, including Bulletins, Earth Sciences Reports, Earth Sciences Notes, Information Series, Memoirs, Reports, Economic Geology Reports, and Open File Reports.

The following descriptions of the various series should help to identify the category to which a publication belongs.

Bulletins

- major, substantive reports
- generally a comprehensive publication on an area or a topic
- published since 1958
- numbered sequentially

Reports

- during the early years of the Research Council, many reports from various subject areas were simply designated as "Reports," although they were subsequently listed in categories such as Earth Sciences Reports
- numbered sequentially

Atmospheric Sciences Reports

- reports primarily of the Alberta Hail Project
- published since 1970
- numbered by year-number (e.g. 78-2)

Coal Reports

- reports describing coal processing research and characteristics of Alberta coal deposits
- published since 1984
- numbered by year-number (e.g. 84-2)

Earth Sciences Reports

- reports on geology, coal geology, soil surveys, and hydrogeology
- generally restricted to a map area or limited to a specific aspect of a broader topic
- published since 1955
- numbered by year-number (e.g. 80-2)

Economic Geology Reports

- reports of mineral compositions and properties of soils and rocks in Alberta
- published since 1971
- numbered sequentially

Exploratory Soil Survey Reports

- reports and maps of soils in several areas of Alberta
- published only from 1957 to 1964
- numbered by year-number (e.g. 64-2)

Alberta Soil Survey Reports

- reports and maps of soils in select areas of Alberta
- first published in 1988
- numbered sequentially

Open File Reports

- unpublished manuscripts
- prepared since 1942
- numbered by full year and number (e.g. 1982-2)

Highway and River Engineering Reports

- three reports, starting in 1962
- numbered by year-number (e.g. 70-1)

Information Series

- indexes, symposia proceedings, and reports of applied studies
- published since 1959, but previously published as Mimeographed Circulars (1947-1959)
- numbered sequentially (Mimeographed Circulars have been renumbered as Information Series 1-29)

Contribution Series

- papers not published by the Research Council but submitted by members of the Research Council to professional societies or journals
- photocopies are available
- numbered sequentially

Earth Sciences Notes

- preliminary typescript reports, less substantive than Earth Sciences Reports
- three reports prepared between 1977 and 1980
- numbered by year-letter (e.g. 81-A)

Natural Resources Notes

- preliminary typescript reports, less substantive than Atmospheric Sciences Reports
- one report prepared in 1980
- numbered by year-number (e.g. 80-1)

Maps

- four categories: bedrock topography, general geology, hydrogeology, and surficial geology
- catalogued by category and title
- numbered sequentially

Memoir

- two reports, published in 1959 and 1960
- numbered sequentially

Mimeographed Circulars

- now under Information Series

Alberta Soil Survey Reports

- | | | | |
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| 47 | Howitt, R.W., N. Findlayson, M. Gowler, M. Riddell, G. McEwan, J. Lutz, and W.L. Nikiforuk. 1988. Soil survey of the County of Beaver, Alberta. \$15.00 | 51 | MacMillan, R.A., W.L. Nikiforuk, A.T. Rodvang, K.M. Riddell, L.D. Perrott, D.A. Gower, C.M. Mougeot, D.M. Borneuf, J. Lutz, and R.M. Krzanowski. 1988. Soil survey of the County of Flagstaff, Alberta. \$15.00 |
| 49 | Wells, R.E., and W.L. Nikiforuk. 1988. Soil survey of the County of Paintearth, Alberta. \$15.00 | | |

Atmospheric Sciences Reports

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| 68-1 | Various. 1968. Alberta Hail Studies field program. | 77-2 | Sackiw, C., and F. Bergwall. 1977. MOBILE RAWINSONDE training and reference manual. \$5.00 |
| 71-1 | Summers, P.W., G.K. Mather, and D.S. Treddenick. 1971. Project Hailstop: 1970. Part I, The development and testing of an airborne droppable pyrotechnic flare system for seeding Alberta hailstorms. \$5.00 | 77-3 | Various. 1977. Current research on hailstorms and their modification: annual report presented to the Interim Weather Modification Board, Alberta Agriculture. \$5.00 |
| 72-1 | Summers, P.W., J.H. Renick, and A.J. Chisholm. 1972. Project Hailstop: 1971. \$5.00 | 77-4 | Leung, S.K. 1977. The Alberta Hail Project radar systems. \$5.00 |
| 72-2 | Barge, B.L., N. Cherry, A.J. Chisholm, M. English, W. Hirschfeld, J.H. Renick, R.R. Rogers, P.W. Summers, and L. Wojtiw. 1972. Alberta hail studies: 1972. \$5.00 | 78-1 | Barge, B.L., and R.G. Humphries. 1978. Precipitation measurement by weather radar: a review. \$5.00 |
| 73-1 | Barge, B.L., L. Wojtiw, and J.H. Renick. 1973. Alberta hail studies: 1973. \$5.00 | 78-2 | Barge, B.L., R.G. Humphries, S.J. Mah, and W.K. Kuhnke. 1978. Weather radar rainfall measurements: applications to operational hydrology in Alberta. \$5.00 |
| 75-1 | Wojtiw, L. 1975. Climatic summaries of hailfall in central Alberta (1957-1973). \$10.00 | 79-1 | Various. 1979. Research, operations, and evaluation in the Alberta Hail Project, 1974-1978. \$15.00 |
| 75-2 | Various. 1975. Alberta Hail Project field program. | 81-1 | English, M., B.L. Barge, and R.G. Humphries. 1981. Cloud Physics Research Aircraft Program: summary of operations in 1978 and preliminary aircraft and radar observations. \$5.00 |
| 76-1 | Goyer, G.G. 1976. Current research on hailstorms and their modification: annual report presented to the Interim Weather Modification Board, Alberta Agriculture. \$15.00 | 84-1 | Wong, R.K.W., and M. English. 1984. Crop damage and sulfur emission: trends in central Alberta. \$5.00 |
| 76-2 | Barge, B.L., and F. Bergwall. 1976. Fine scale structure of convective storms associated with hail production. \$10.00 | 86-1 | Barge, B.L., B. Kochtubajda, M. English, J. Renick, and R.G. Humphries. 1986. Potential for weather modification. \$5.00 |
| 76-3 | Barge, B.L., F. Bergwall, G.G. Goyer, and J.H. Renick. 1976. Fine scale structure of convective storms – implications for cloud seeding in Alberta. \$5.00 | 86-2 | Wojtiw, L. 1986. Radar for rainstorm intensity-duration estimates in central Alberta. \$5.00 |
| 77-1 | Robitaille, F.E. 1977. Development and use of a MOBILE RAWINSONDE System. \$5.00 | | |

Bulletins

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Coal Reports

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| <p>84-2 Parkash, S., S.K. Chakrabarty, and M.P. duPlessis. 1984. Nature of porosity in Alberta subbituminous coals. \$4.00</p> <p>85-1 Chakrabarty, S.K., and M.P. duPlessis. 1985. Evaluation of Alberta plains coals for pyrolysis and liquefaction processes. \$5.00</p> | <p>87-1 Chakrabarty, S.K., A. Hardin, and D.A. Reeve. 1988. Studies of liquefaction potential of Canadian coals: report of Canada/Japan coal liquefaction cooperation.</p> |
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Contribution Series

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| <p>1 Lang, W.A. 1942. Fuel investigations of the Research Council of Alberta (1919-1940). Transactions, Canadian Institute of Mining and Metallurgy 45: pp. 1-16.</p> <p>2 Stansfield, E. 1943. Humidity data expressed in grains water vapour per pound of dry air. Canadian Journal of Research 21A: pp. 55-123.</p> <p>3 Lang, W.A. 1943. Alternative fuels for motor vehicles. Engineering Journal 26: pp. 449-454.</p> <p>4 Clark, K.A. 1944. Hot water separation of Alberta bituminous sand. Transactions, Canadian Institute of Mining and Metallurgy 47: pp. 257-274.</p> <p>5 Clark, K.A. 1944. Some physical properties of Alberta bituminous sand. Canadian Journal of Research 22F: pp. 174-180.</p> | <p>6 Lilge, E.O. 1945. Purification of silica sand – Alberta tar sands suitable for glass manufacturing. Canadian Chemistry and Process Industries 29: pp. 480-482.</p> <p>7 Clark, K.A. 1945. Bituminous sands of Alberta. The Oil Weekly 121(11): pp. 46-51.</p> <p>8 Clark, K.A. 1945. Asphaltic road oils from Alberta bituminous sand. Canadian Chemistry and Process Industries 29: pp. 616-617.</p> <p>9 Lang, W.A. 1946. Research and the coal industry in Canada. Transactions, Canadian Institute of Mining and Metallurgy 49: pp. 51-62.</p> <p>10 Stansfield, E. 1946. Recent work of the Research Council of Alberta. Bulletin, Canadian Institute of Mining and Metallurgy 39: pp. 121-128.</p> |
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- 18 Gregory, J., and A. McCulloch. 1949. Low temperature carbonization of Alberta subbituminous coal. *Industrial and Engineering Chemistry* 41(5): pp. 1003-1011.
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